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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/659,508	09/10/2003	Keisuke Tsubata	S004-5111	3604
40627	7590	06/09/2006		EXAMINER
ADAMS & WILKS 17 BATTERY PLACE SUITE 1231 NEW YORK, NY 10004			NATNITHITHADHA, NAVIN	
			ART UNIT	PAPER NUMBER
			3735	

DATE MAILED: 06/09/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	10/659,508	TSUBATA, KEISUKE
Examiner	Art Unit	
Navin Natnithithadha	3735	

-- The MAILING DATE of this communication app appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1)  Responsive to communication(s) filed on 13 March 2006.

2a)  This action is **FINAL**.                  2b)  This action is non-final.

3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## **Disposition of Claims**

- 4)  Claim(s) 1-7 is/are pending in the application.  
    · 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5)  Claim(s) 4-7 is/are allowed.

6)  Claim(s) 1-3 is/are rejected.

7)  Claim(s) \_\_\_\_\_ is/are objected to.

8)  Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## **Application Papers**

- 9)  The specification is objected to by the Examiner.

10)  The drawing(s) filed on 10 September 2003 is/are: a)  accepted or b)  objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) All b) Some \* c) None of:  
1. Certified copies of the priority documents have been received.  
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s):**

- 1)  Notice of References Cited (PTO-892)  
2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.  
4)  Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_.  
5)  Notice of Informal Patent Application (PTO-152)  
6)  Other: \_\_\_\_\_.

## DETAILED ACTION

### *Response to Amendment*

1. Claims 1-7 have been amended. Claims 1-7 are pending.

### *Response to Arguments*

2. Applicant's arguments, see Remarks, pages 12-14, filed 13 March 2006, with respect to claims 1-7 have been fully considered and are persuasive. The 35 USC 102(b) rejections of claims 1-7 has been withdrawn.

### *Claim Rejections - 35 USC § 101*

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

3. Claims 1-3 rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

In claims 1-3, the sampling process unit, averaging process unit and Fourier transform process unit describe nothing more than the "manipulation of basic mathematical constructs, the paradigmatic abstract idea". See MPEP § 2106 (IV)(A). "A claim to an 'abstract idea' is nonstatutory because it does not represent a practical application of the idea, not because it would preempt the idea." *Id.* The Fourier Transform processing apparatus, which is a computation device that performs known mathematical functions, lacks a practical application.

***Allowable Subject Matter***

4. Claims 4-7 are allowed.
5. The following is an examiner's statement of reasons for allowance:

Claims 4-7: Amano '159 teaches obtaining the average waveform per beat over a fixed interval of time, where each pulse waveform corresponds to one beat ((beat 1 + beat 2+ beat 3 + beat 4) / 4). Amano '837 teaches calculating the moving average of the slope of the waveform over a fixed time interval using overlapping data. However, neither of these patent nor the prior art of record teaches an averaging process unit that sequentially averages without every predetermined number of signals from the sampling process unit ((Y0 + Y1) / 2, (Y2 + Y3) / 2, and so on) and sequentially outputs resultant signals at a second frequency which is lower than the first frequency (a process known as "modified moving average").

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Navin Natnithithadha whose telephone number is (571) 272-4732. The examiner can normally be reached on Monday-Friday, 8:00am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor, II can be reached on (571) 272-4730. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Navin Natnithithadha  
Patent Examiner – GAU 3735  
12 June 2006